

Claims

1. A pulp washing method, characterised in the following repeated steps:

5 a) first volume of liquid is displaced from a batch of pulp by means of a washing liquid and removed from the washing process;

b) wash filtrate is displaced from the pulp by means of a second volume of washing liquid, said wash filtrate being at least partly recovered into a fraction holding vessel, maintaining a concentration gradient within the filtrate in the holding vessel;

c) the washed batch of pulp is replaced by an unwashed batch of pulp;

10 d) the concentration-gradient wash filtrate recovered in step b is used to displace liquid from the unwashed batch of pulp according to step a.

2. A method as defined in claim 1, characterised in that the recovered wash filtrate is displaced from the holding vessel by washing water, and the washing water remaining in  
15 the holding vessel after the washing stage is returned to the washing water tank to be used in the displacement of subsequent filtrates.

3. A pulp washing plant, characterised in that it comprises a pulp washing chamber, means for bringing pulp into the washing chamber and for removing it therefrom and at  
20 least two vessels for receiving and holding wash filtrate, the structure of which vessels has been adapted to maintain the concentration gradient of the wash filtrate between inlet and outlet connections of the vessel, and means for displacing wash filtrate from the vessels into the pulp washing chamber.

25 4. A plant as defined in claim 3, characterised in that the vessel comprises a pipe or a hose.

30 5. A plant as defined in claim 3, characterised in that the inside structure of the vessels is a cell structure comprising parallel channels extending in the flow-through direction of the tank.

6. A plant as defined in any claim 3 to 5, characterised in that the vessels are filled via their bottom, and ventilation and overflow are provided via the top of the tank.